

0806E474**M.Sc Sem.-2 Examination****P - 408****Botony****June 2022**

Candidate's Seat No : _____

Time : 2-00 Hours]**[Max. Marks : 50**

Instructions: All Questions in **Section I** carry equal marks
 Attempt any **THREE** Questions in **Section I**
 Questions IX in **Section II** is **COMPULSORY**

Section I

- | | | |
|--------|---|---|
| Q I | A. Explain Energy Flow in Ecosystem | 7 |
| | B. Explain Biotic Factors | 7 |
| Q II | A. Explain Principles of Limiting Factors | 7 |
| | B. Short note on Functions of Ecosystems | 7 |
| Q III | A. Explain Structure of Plant community | 7 |
| | B. Short note on Speciation and Extinction | 7 |
| Q IV | A. Short note on Process of Ecological Succession | 7 |
| | B. Explain Mapping of Biodiversity | 7 |
| Q V | A. Short note on Greenhouse gases | 7 |
| | A. Short note on EIA | 7 |
| Q VI | A. Short note on Consequences of Climate Change | 7 |
| | B. Short note on Bioremediation | 7 |
| Q VII | A. Describe Digital image processing. | 7 |
| | B. Give brief note on GIS. | 7 |
| Q VIII | A. Explain the application of Remote Sensing in Biodiversity management with example. | 7 |
| | B. Give brief note on GPS. | 7 |

Section II

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|------|--|---|
| Q IX | MCQs | 8 |
| 1 | A part of the soil that develops characteristic physical and chemical properties is called | 1 |
| A | Top soil | |
| B | Horizon | |
| C | Zone of illuviation | |
| D | Parent material | |

P.T.O

E 474-2

- 2 _____ is an expression of the production of new individuals in population. 1
- A Natality
B Growth rate
C Mortality
D Fecundity
- 3 Who used term **Niche** first time in 1917 1
- A Charles Elton
B G. F. Gause
C Joseph Grinnel
D David Lack
- 4 Bio-geochemical Cycle directly refers to cycling of 1
- A Water
B Energy
C Gases
D Nutrients in Ecosystem
- 5 What are those protected areas to preserve the genetic diversity in representative ecosystem? 1
- A National Park
B Sanctuary
C Biosphere reserve
D Biome
- 6 What fraction of land in India is lying waste as a result of environmental problem? 1
- A One fourth
B One third
C One tenth
D One twelve
- 7 In which system source of energy is part of the remote sensor system? 1
- A Passive
B Direct
C Active
D Indirect
- 8 GPS project was proposed in which year? 1
- A 1999
B 1973
C 1980
D 2000

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